



Montville Power LLC  
Montville Generating Station  
74 Lathrop Road  
Uncasville, CT 06382

January 30, 2017

Permit Coordinator  
Bureau of Water Protection and Land Reuse, Remediation Division  
Connecticut Department of Energy and Environmental Protection  
79 Elm Street  
Hartford, Connecticut 06106-5127

**Subject: TA-326 – Baseline Monitoring Data Transmittal  
Groundwater Injection Pilot Test  
Montville Generating Station, Montville Power LLC, Montville, CT**

To Permit Coordinator:

In accordance with Section VI.B.3.d of Temporary Authorization No. TA-326 issued on November 9, 2016, Montville Power LLC is submitting this data summary review to the Connecticut Department of Energy and Environmental Protection (CTDEEP) for the subject site. The results are for the baseline groundwater monitoring conducted prior to the groundwater injection Pilot Test.

"I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statement made in this document or its attachments may be punishable as a criminal offense."

Should you have any questions or require further information, please call Mr. Ian Cambridge at (860) 848-6017.

Thank you,

A handwritten signature in black ink, appearing to read "Nick Volturno", with a long horizontal flourish extending to the right.

Nick Volturno  
Plant Manager  
Montville Power LLC

cc: Jessica Stefanowicz, CTDEEP (e-copy only)  
Juan Perez, USEPA (e-copy only)  
Robert Spooner, NRG (e-copy only)  
Ian Cambridge, NRG Montville (hard copy and e-copy)  
Andrew D. Walker, LEP, CB&I (e-copy only)



CB&I Environmental and Infrastructure, Inc.  
150 Royall Street  
Canton, MA 02021  
Tel: +1 617 589 5111  
Fax: +1 617 589 5495  
[www.CBI.com](http://www.CBI.com)

January 23, 2017

Project #: 631207126.11021320

Permit Coordinator  
Bureau of Water Protection and Land Reuse, Remediation Division  
Connecticut Department of Energy and Environmental Protection  
79 Elm Street  
Hartford, Connecticut 06106-5027

Subject: TA-326 – Baseline Monitoring Data Transmittal  
Groundwater Injection Pilot Test  
Montville Generating Station, Montville, Connecticut

Dear Permit Coordinator:

On behalf of Montville Power LLC (Montville Power) and its parent company, NRG Energy, Inc. (NRG), CB&I Environmental and Infrastructure, Inc. (CB&I) has prepared this data transmittal as required by Section VI.B.3.d of Temporary Authorization (TA)-326 issued by the Connecticut Department of Energy & Environmental Protection (CTDEEP) on November 9, 2016 (CTDEEP, 2016b). This transmittal summarizes the baseline groundwater monitoring conducted prior to initiation of the groundwater injection Pilot Test conducted in accordance with the Groundwater Remedial Action Plan (Groundwater RAP; CB&I, 2016a) and the permit application submitted for TA-326.

### Groundwater Sampling

Groundwater monitoring was conducted on December 2, 2016. Groundwater samples were collected from new pilot test area monitoring wells AOC12-MW401, located in the EnviroBlend (EB) injection area, and AOC12-MW402, located in the TerraBond (TB) injection area. The wells were installed more than 48 hours prior to sampling. Approximate well locations are provided in **Figure 1**.

Depth to groundwater was measured at each of the monitoring wells using an electronic interface probe (IP). The IP used detects water and light non-aqueous phase liquid (LNAPL), if present, to within accuracy of 0.01 foot. LNAPL was not detected in monitoring wells gauged during this event. Depth to water was measured at 11.50 feet from top of PVC for AOC12-MW401 (approximately 8.70 feet below ground surface [bgs]) and 6.60 feet for AOC12-MW402 (approximately 3.85 feet bgs). The water level data will be tabulated and converted to elevation after the wells have been surveyed.

CB&I collected groundwater samples from the monitoring wells using a modified low flow sampling technique. Each well was pumped at a rate that produced little or no draw down while parameters including temperature, pH, oxidation reduction potential (ORP), dissolved oxygen (DO), conductivity, and turbidity were monitored. Logs of field water quality parameters at these wells are provided in **Attachment 1** and final readings are summarized in **Table 1**. Groundwater samples were then collected after the parameters stabilized to ensure that each sample was representative of local aquifer conditions. Based upon the Groundwater RAP and the permit application submitted for TA-326, groundwater samples were submitted to Accutest Laboratories of Marlborough, Massachusetts for analysis of total and dissolved metals (arsenic, iron, magnesium, and vanadium; Method EPA

200.7); sulfate (Method ASTM516-90,02); nitrogen, nitrate, and nitrite (Method EPA 353.2); orthophosphate (Method EPA 365.3); nitrogen nitrite (Method SM 21 4500 NO2 B); total organic carbon (Method SM21 5310 B); and sulfide (Method SM4500S2-F-11). The complete laboratory analytical report for the Pilot Test baseline groundwater sampling event is included in **Attachment 2**.

## Groundwater Results

Groundwater analytical results from the baseline sampling event are summarized in **Tables 1 and 2**. As appropriate, **Table 1** compares groundwater analytical results to the Surface Water Protection Criteria (SWPC), Additional SWPC (vanadium), and Alternative SWPC (arsenic). CTDEEP approved the Additional and Alternative SWPC for the subject site in their March 13, 2013 letter (CTDEEP, 2013). **Table 2** compares groundwater analytical results to CTDEEP Water Quality Criteria (WQC) for aquatic life per Section VI.B.1.I of TA-326.

The data presented in **Table 1** indicates:

- Concentrations of total arsenic detected were 24.3 micrograms per liter (ug/L) at AOC12-MW402 and 98.2 ug/L at AOC12-MW401. The concentrations of arsenic detected are greater than the Alternative SWPC (10 ug/L) at both wells (plus one field duplicate). These detections are generally consistent with previous sampling in the Pilot Test area (i.e., AOC12-MW305 and AOC12-MW306).
- Concentrations of total and dissolved vanadium at both wells (and the field duplicate) were non-detect or detected at low concentrations and significantly less than the ASWPC of 4,400 ug/L. These low detections are generally consistent with previous sampling in the Pilot Test area (i.e., AOC12-MW305 and AOC12-MW306).
- Iron and magnesium do not have historic data sets or ASWPC for comparison of results. These metals and geochemistry parameters were analyzed to evaluate reagent activity and not for compliance monitoring.

The groundwater data from several previous rounds of sampling have indicated that there is little difference between dissolved and total metals concentrations in groundwater at the Montville site (Shaw, 2010). The Pilot Test baseline groundwater monitoring results presented in **Tables 1 and 2** are generally consistent with that finding. The data presented in **Table 2** indicates that the concentration of dissolved arsenic at AOC12-MW401 of 97.0 ug/L is greater than the acute Water Quality Criteria (WQC) for saltwater of 69 ug/L. As such, the concentration of dissolved arsenic at AOC12-MW401, which is within 100 feet of the river, is consistent with previous groundwater monitoring results in the Pilot Test area and not newly elevated as a result of the Pilot Test activities.

## Laboratory Analytical - QA/QC Evaluation

Laboratory analysis completed as part of this assessment was conducted in accordance with CTDEEP's Reasonable Confidence Protocol and the site specific Quality Assurance Project Plan (QAPP). The site specific QAPP was developed for the subject site in accordance with U.S. Environmental Protection Agency (USEPA) guidance (Shaw, 2011). The QAPP presents the requirements and procedures for conducting field sampling activities and investigations at the site so that (1) the data quality objectives specified for this project are met, (2) the field sampling protocols are documented and reviewed in a consistent manner, and (3) scientifically valid and defensible data are collected. Field sampling activities discussed above were completed in general compliance with the QAPP that has been generated for the site.

CB&I requested that laboratory analysis be conducted in accordance with the QAPP and CTDEEP's Reasonable Confidence Protocol (CTDEP, 2007). CB&I performed a data validation review for the laboratory report and documented the results in a data validation worksheet. The data validation worksheet is included with the laboratory report in **Attachment 2**. This worksheet is consistent with the data quality assessment and data usability evaluations detailed in CTDEEP guidance (CTDEP, 2009)

In general, laboratory analyses were completed in accordance with the site QAPP and CTDEEP's Reasonable Confidence Protocol. However, a few minor quality assurance/quality control (QA/QC) issues, which are summarized in the validation worksheet and laboratory report narrative, were identified. These identified QA/QC issues resulted in some detection limits and reported results being qualified. QA/QC issues noted included:

- The RPD for duplicate sample for orthophosphate were outside control limits. However, the percent difference is considered acceptable due to low duplicate and sample concentrations and no qualification is necessary.
- The orthophosphate samples were filtered at the laboratory prior to analysis though the method requires field filtration within 15 minutes of sampling. No qualification is necessary and field filtering will be implemented for future sample collection.
- The relative percent difference (RPD) of a serial dilution sample indicated arsenic was outside control limits. However, the percent difference is considered acceptable due to low initial sample concentration (<50 times instrument detection limit) and no qualification is necessary.

A number of sample results were reported at concentrations less than the reporting limit but greater than the method detection limit. Although this is not specifically a QA/QC issue, the results should be considered estimated and are flagged with a "J". In summary, each of the identified issues had no overall effect on the conclusions drawn from the data, and the data is acceptable for the purposes of this submittal.

## Summary Review

Total arsenic concentrations in groundwater during the baseline monitoring event are generally consistent with previous monitoring at other wells in the area of interest for the Groundwater RAP. Baseline groundwater results will be compared to post-injection sampling results in future data summary transmittals prepared per TA-326.

If you have any questions regarding this letter or any other site matter, please do not hesitate to call me at 617-589-6143.

"I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statement made in this document or its attachments may be punishable as a criminal offense."

Sincerely,



Andrew D. Walker, LEP, LSP  
Project Manager  
CB&I Environmental and Infrastructure, Inc.

Phone: 617-589-6143

E-mail Address: [Andrew.Walker@CBI.com](mailto:Andrew.Walker@CBI.com)

Enclosures:

#### **Tables**

Table 1 - Groundwater Analytical Results Compared to ASWPC  
Table 2 - Groundwater Analytical Results Compared to Acute WQC

#### **Figure**

Figure 1 - Site Plan

#### **Attachments**

Attachment 1 – Field Sampling Data Sheets  
Attachment 2 - Laboratory Analytical Reports for Groundwater with Data Validation Worksheet

cc: Ms. Jessica Stefanowicz, CTDEEP (electronic only)  
Mr. Ian Cambridge, Montville Power LLC (hard copy and electronic)  
Mr. Robert Spooner, NRG (electronic only)  
Mr. Juan Perez, USEPA (electronic only)

## REFERENCES

- CB&I, 2016a. Remedial Action Plan for Groundwater, Montville Electric Generating Station, Montville, Connecticut. CB&I Environmental and Infrastructure, Inc. February 25, 2016 (revisions dated June 16, 2016).
- CB&I, 2016b. Site Wide Remedial Action Plan, Montville Generating Station, Montville, Connecticut. CB&I Environmental and Infrastructure, Inc. July 19, 2016.
- CTDEP, 2007. Laboratory Quality Assurance and Quality Control Guidance, Reasonable Confidence Protocols Guidance Document. Connecticut Department of Environmental Protection. November 2007.
- CTDEP, 2009. Laboratory Quality Assurance and Quality Control, Data Quality Assessment and Data Usability Evaluation. Connecticut Department of Environmental Protection. May 2009.
- CTDEEP, 2013. Request for Criteria for Additional Polluting Substances and Alternative Criteria, Montville Station, 74 Lathrop Road, Montville. Connecticut Department of Energy & Environmental Protection. March 13, 2013.
- CTDEEP, 2016a. Groundwater Remedial Action Plan, Montville Station, 74 Lathrop Road, Montville, REM ID 4204. June 30, 2016
- CTDEEP, 2016b. Temporary Authorization TA-326, Montville Power LLC, Montville Station, 74 Lathrop Road, Montville. November 9, 2016
- Shaw, 2011. Quality Assurance Project Plan, NRG Montville Generating Station. Shaw Environmental, Inc. March 2008, Revised August 2011.

## TABLES

**Table 1**  
**Groundwater Analytical Results Compared to ASWPC**  
**Pilot Test Baseline December 2016**  
**Montville Power LLC, Montville, CT**

CONSTITUENT (ug/l)	UNITS	SWPC or Alt/Add SWPC (1)	AOC12-MW-401 12/2/2016 Primary	AOC12-MW-402 12/2/2016 Primary	AOC12-MW-402 12/2/2016 Duplicate 1
<b>Metals (total)</b>					
Arsenic	ug/l	10	{98.2}	{24.3}	{25.2}
Iron	ug/l	NE	32100	1680	1650
Magnesium	ug/l	NE	5700	1360BJ	1340BJ
Vanadium	ug/l	4400	25.3BJ	0.80BJ	<0.72
<b>Metals (dissolved)</b>					
Arsenic	ug/l	10	{97.0}	{24.1}	{24.3}
Iron	ug/l	NE	33000	1670	1700
Magnesium	ug/l	NE	5870	1370BJ	1370BJ
Vanadium	ug/l	4400	16.0BJ	<0.72	0.80BJ
<b>Miscellaneous</b>					
Nitrate/Nitrogen	ug/l	NE	<110	150	---
Nitrite/Nitrogen	ug/l	NE	<10	<10	---
Nitrogen, Nitrate and Nitrite	ug/l	NE	<100	150	---
Orthophosphate	ug/l	NE	140	<100	---
Sulfate	ug/l	NE	146000	13800	---
Sulfide	ug/l	NE	280BJ	280BJ	---
TOC	ug/l	NE	<1000	<1000	---
<b>Field Parameters</b>					
pH		NE	6.36	6.47	---
ORP	mV	NE	-23.5	-4.2	---
Dissolved Oxygen	mg/l	NE	0.8	1.23	---
Specific Conductance	mS/cm	NE	0.386	0.073	---
Temperature	deg. C	NE	15.3	14.3	---
Turbidity	NTU	NE	0	0	---

**Notes:**

SWPC = Surface Water Protection Criteria

--- = Constituent not analyzed for.

NE = None Established.

(1)= Approved Alternative and Additional SWPC in

March 13, 2013 CTDEEP letter

{Red Highlight} = Result is above appropriate SWPC

ug/l = micrograms per liter

B = Less than detection limit, lab qualifier

J = Less than detection limit, validation qualifier

mg/l = milligrams per liter

mS/cm = milliseimens per centimeter

deg. C = degrees celcius

NTU = nephelometric turbidity unit

*Lab results have been validated.*



**Table 2**  
**Groundwater Analytical Results Compared to WQC Acute Fresh and Salt**  
**Pilot Test Baseline December 2016**  
**Montville Power LLC, Montville, CT**

CONSTITUENT	UNITS	Acute WQC Freshwater	Acute WQC Saltwater	AOC12-MW-401 12/2/2016 Primary	AOC12-MW-402 12/2/2016 Primary	AOC12-MW-402 12/2/2016 Duplicate 1
<b>Metals (total)</b>						
Arsenic	ug/l	340	69	{98.2}	24.3	25.2
Iron	ug/l	NE	NE	32100	1680	1650
Magnesium	ug/l	NE	NE	5700	1360BJ	1340BJ
Vanadium	ug/l	NE	NE	25.3BJ	0.80BJ	<0.72
<b>Metals (dissolved)</b>						
Arsenic	ug/l	340	69	{97.0}	24.1	24.3
Iron	ug/l	NE	NE	33000	1670	1700
Magnesium	ug/l	NE	NE	5870	1370BJ	1370BJ
Vanadium	ug/l	NE	NE	16.0BJ	<0.72	0.80BJ
<b>Miscellaneous</b>						
Nitrate/Nitrogen	ug/l	NE	NE	<110	150	---
Nitrite/Nitrogen	ug/l	NE	NE	<10	<10	---
Nitrogen, Nitrate and Nitrite	ug/l	NE	NE	<100	150	---
Orthophosphate	ug/l	NE	NE	140	<100	---
Sulfate	ug/l	NE	NE	146000	13800	---
Sulfide	ug/l	NE	NE	280BJ	280BJ	---
TOC	ug/l	NE	NE	<1000	<1000	---

**Notes:**

WQC = Numerical Water Quality Criteria for chemical constituents.

ug/l = micrograms per liter.

B = Less than detection limit, lab qualifier

J = Less than detection limit, validation qualifier

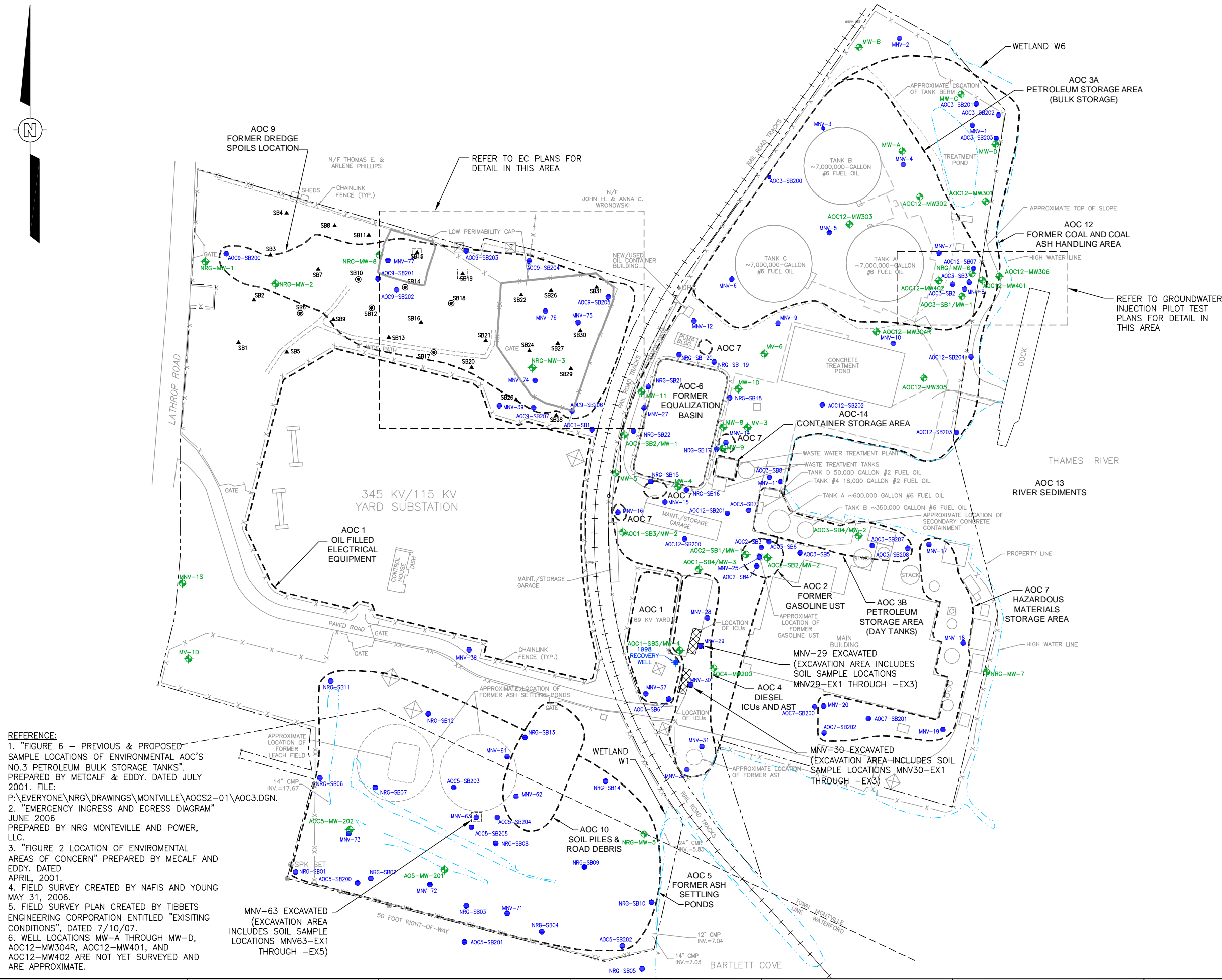
--- = Constituent not analyzed for.

NE = None Established.













{Red Highlight} = Result is above WQC

*Lab results have been validated.*

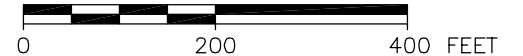
**FIGURE**





LEGEND:

- |  |   |
|--|---|
|           | PROPERTY BOUNDARY   |
|           | FUEL OIL PIPING   |
|           | FENCE LINE  |
|  NRG-MW-6 | GROUNDWATER MONITORING WELLS  |
|           | RECOVERY WELL   |
|           | SOIL BORING LOCATION  |
|  SB18     | LOCATION OF DEEP SOIL BORINGS FORMER DREDGE MATERIALS LOCATION INVESTIGATION—OCTOBER, 2000    |
|  SB31     | LOCATION OF SHALLOW SOIL BORINGS FORMER DREDGE MATERIALS LOCATION INVESTIGATION—OCTOBER, 2000 |
|           | WETLAND LINE OR WATER COURSE  |
|           | DIESEL INTERNAL COMBUSTION (ICU) ENGINE UNITS   |
|           | ELECTRICAL TOWER  |
|           | AREA OF CONCERN (AOC)   |

SCALE



REV	DESCRIPTION / ISSUE	DATE	APPROVED

	<p>150 Royall Street Canton MA. 02021</p>		
	<p>DESIGNED BY: <i>AW/AS</i></p>		
<p>DRAWN BY: <i>GJ</i></p>	<p>   NRG ENERGY, INC. MONTVILLE POWER LLC UNCASVILLE, CONNECTICUT </p>		
<p>CHECKED BY: <i>PF/VT</i></p>	<p><b>SITE PLAN</b></p>		
<p>APPROVED BY: <i>AW</i></p>	<p>DATE: 1/27/17</p>	<p>SCALE: AS SHOWN</p>	<p>DRAWING NO. 631207126-B3</p>
			<p>SHEET NO. —</p>

**ATTACHMENT 1**

**FIELD SAMPLING DATA SHEETS**

Job Name: NRG Montville  
 Job Number: 631207126-11021320

Measured to Top of PVC: ☒ Yes ☐ No (Circle One)

Well ID: <u>MW-402</u>		Date: <u>12-02-16</u>		Depth To Water: <u>6.60'</u>		Depth To LNAPL: <u>-</u>		Depth To Bottom: <u>19.75'</u>			
Screen Interval: <u>2'-17' (BGS)</u>		Target Pump Intake Depth: <u>10' (BGS)</u>						Well Depth: <u>17' (BGS)</u>			
Pump Type: <u>Peristaltic</u>		Actual Pump Intake Depth: <u>10' (BGS)</u>				Total Volume Purged: <u>4.5L</u>					
Time	Depth to Water From (ft.) <i>Top of riser</i>	Pump Dial Setting <sup>1</sup>	Purge Rate (ml./min.)	Cum. Volume Purged (Liters)	Temperature (°C)	pH (SU)	Specific Conductance (ms/cm) <sup>2</sup>	Dissolved Oxygen (mg/L)	ORP <sup>3</sup> (mV)	Turbidity (NTU)	Comments
Stabilization Criteria			3%		3%	0.1	3%	10% or <2	10	10% or <1	for three consecutive readings
0720					12.8	8.90	0.085	3.76	-25.5	38.4	
0725	6.6'				13.6	8.10	0.072	2.27	-16.9	35.4	
0730				1L	13.5	7.58	0.071	1.82	-14.4	33.7	
0735					13.3	7.11	0.069	1.72	-14.1	27.6	
0740				2L	14.0	6.81	0.069	1.60	-13.8	20.2	
0745	6.6'				14.3	6.64	0.071	1.47	-13.7	15.2	
0750					13.9	6.60	0.071	1.45	-12.9	11.6	
0755				3L	14.3	6.55	0.071	1.41	-11.7	6.5	
0800	6.6'				14.0	6.53	0.070	1.38	-10.9	5.0	
0805				~3.5L	14.2	6.51	0.071	1.32	-10.6	2.3	
0810				4L	14.4	6.49	0.072	1.29	-8.5	-0.3	
0815					14.1	6.48	0.073	1.25	-6.7	-0.5	
0820				4.5L	14.3	6.47	0.073	1.23	-4.2	-1.1	

1. Pump dial setting (example: Hertz, cycles/min, etc.)
2.  $\mu$ Siemens per cm (same as  $\mu$ mhos/cm) at 25°C.
3. Oxidation reduction potential (ORP)

4. Target Drawdown not to exceed is 0.3 ft (about 4 inches)

Field Personnel:

A. Magrant

BGS = Below Ground Surface, not measured from top of riser like DTW & DTB were

**Job Name:** NRG Montville

**Job Number:** 631207126-11021320

Measured to Top of PVC: Yes No (Circle One)

[illegible]

1. Pump dial setting (example: Hertz, cycles/min, etc.)
2.  $\mu$ Siemens per cm (same as  $\mu$ mhos/cm) at 25°C.
3. Oxidation reduction potential (ORP)
4. Target Drawdown not to exceed is 0.3 ft (about 4 inches)

**Field Personnel:**

A. Myer

**ATTACHMENT 2**

**LABORATORY ANALYTICAL REPORT FOR GROUNDWATER WITH DATA VALIDATION WORKSHEET**

## Data Usability Worksheet

**Project Name :** NRG Montville

**Job Number :** 631207126

**Prepared By:** Cathy Joe Mainville

**Date :** 12/19/2016

**Validated By:** Kim Napier

**Date :** 1/3/2017

**Matrix:** Groundwater

**Analyte Group :**  
Select Metals  
Sulfate  
Nitrogen, Nitrate + Nitrite  
Orthophosphate  
Nitrogen Nitrite  
Total Organic Carbon  
Sulfide

**Analytical Method :** EPA 200.7  
ASTM516-90,02  
EPA 353.2  
EPA 365.3  
SM 21 4500 NO2 B  
SM21 5310 B  
SM4500S2-F-11

**Completed RCP Certification Form included: Yes**

**Laboratory ID No. :** MC48956

**Chain of Custody included in Data Package ? Yes**

**Is it Complete ? Yes**

Sample Collection Date	Analysis	Allowable Holding Time for	Allowable Holding Time	Analysis Date
12/2/2016	EPA 200.7 - Metals		180 Days (Mercury 28 Days)	12/14/2016
12/2/2016	ASTM516-90,02 - Sulfate		28 Days	12/2/2016
12/2/2016	EPA 353.2 - Nitrogen, Nitrate + Nitrite		28 Days	12/8/2016
12/2/2016	EPA 365.3 - Orthophosphate		48 Hours/ Client to filter sample at collection	12/2/2016
12/2/2016	SM 21 4500 NO2 B - Nitrogen Nitrite		48 hours	12/2/2016
12/2/2016	SM21 5310 B - Total Organic Carbon		28 Days	12/5/2016
12/2/2016	SM4500S2-F-11 - Sulfide		7 Days	12/5/2016

**Sample temperature within QC limits:** Yes, 1.8 °C

### Surrogate Recovery

Are all % recoveries within the allowable range ? NA

If No, List sample ID where range was exceeded: N/A

### MS/MSD

Are all MS/MSD sample recoveries within the QC limits ? Yes

If No, list sample ID, date and compound where limit was exceeded: N/A

### Laboratory Control Samples

Are all laboratory control sample recoveries within the QC limits ? Yes

If no, list sample ID where range was exceeded:

**Equipment Field Blank ID :** EQUIPMENT BLANK 12/2/2016

**Trip Blank ID :** N/A

**Method Blank:** 12/14/2016

**Were any compounds identified in the method blank, field blank or trip blank above detection limits ?** No

**If so, list Sample ID/Compound/Concentration/Units:**

### Notes:

#### Batch GN55475

RPD(s) for Duplicate for Phosphate, Ortho are outside control limits for sample GN55475-D1. RPD acceptable due to low duplicate and sample concentrations.  
No qualification necessary

MC48956-4 for Phosphate, Ortho: Filtration performed at the lab prior to analysis. Method requires field filtration within 15 minutes of sampling.  
No qualifiers applied

MC48956-1 for Phosphate, Ortho: Filtration performed at the lab prior to analysis. Method requires field filtration within 15 minutes of sampling.  
No qualifiers applied

#### Batch MP97542

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP97542-SD1. Percent difference acceptable due to low initial sample concentration (<50 times IDL).  
No qualification necessary

Results reported > MDL and < RL ("B"-flagged by the lab) should be considered as estimated and qualified "J"

**Reviewed By:** Kim Napier



## Report of Analysis

Client Sample ID: AOC12-MW-402  
 Lab Sample ID: MC48956-1  
 Matrix: AQ - Ground Water

Date Sampled: 12/02/16  
 Date Received: 12/02/16  
 Percent Solids: n/a

Project: NRG Montville Lathrop Road, Montville, CT

4.1

4

## Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic <sup>a</sup>	24.3	3.0	2.8	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Iron <sup>a</sup>	1680	100	18	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Magnesium <sup>a</sup>	1360 B J	5000	90	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Vanadium <sup>a</sup>	0.80 B J	50	0.72	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>

(1) Instrument QC Batch: N:MA40958

(2) Prep QC Batch: N:MP97542

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit  
 MDL = Method Detection Limit

U = Indicates a result < MDL  
 B = Indicates a result >= MDL but < RL

## Report of Analysis

Client Sample ID:	AOC12-MW-402	Date Sampled:	12/02/16
Lab Sample ID:	MC48956-1	Date Received:	12/02/16
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

## General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed By Method
Nitrogen, Nitrate <sup>a</sup>	0.15	0.11	0.019	mg/l	1	12/08/16 16:46 VY EPA 353.2
Nitrogen, Nitrate + Nitrite	0.15	0.10	0.018	mg/l	1	12/08/16 16:46 VY EPA 353.2
Nitrogen, Nitrite	<0.010	0.010	0.0010	mg/l	1	12/02/16 14:10 MC SM 21 4500 NO2 B
Phosphate, Ortho <sup>b</sup>	<0.10	0.10	0.015	mg/l	1	12/02/16 15:44 VY EPA 365.3
Sulfate	13.8	5.0	1.1	mg/l	1	12/02/16 EAL ASTM516-90,02
Sulfide <sup>c</sup>	0.28 B	2.0	0.26	mg/l	1	12/05/16 16:25 ANJ SM4500S2- F-11
Total Organic Carbon	<1.0	1.0	0.16	mg/l	1	12/05/16 16:40 VY SM21 5310 B

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

(b) Filtration performed at the lab prior to analysis. Method requires field filtration within 15 minutes of sampling.

(c) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
B = Indicates a result > = MDL but < RL

## Report of Analysis

Client Sample ID:	AOC12-MW-402	Date Sampled:	12/02/16
Lab Sample ID:	MC48956-1F	Date Received:	12/02/16
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

## Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic <sup>a</sup>	24.1	3.0	2.8	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Iron <sup>a</sup>	1670	100	18	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Magnesium <sup>a</sup>	1370 B	5000	90	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Vanadium <sup>a</sup>	0.72 U	50	0.72	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>

(1) Instrument QC Batch: N:MA40958

(2) Prep QC Batch: N:MP97542

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
B = Indicates a result > = MDL but < RL

## Report of Analysis

Client Sample ID: AOC12-MW-402-DUP

Lab Sample ID: MC48956-2

Matrix: AQ - Ground Water

Date Sampled: 12/02/16

Date Received: 12/02/16

Percent Solids: n/a

Project: NRG Montville Lathrop Road, Montville, CT

## Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic <sup>a</sup>	25.2	3.0	2.8	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Iron <sup>a</sup>	1650	100	18	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Magnesium <sup>a</sup>	1340 B	5000	90	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Vanadium <sup>a</sup>	0.72 U	50	0.72	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>

(1) Instrument QC Batch: N:MA40958

(2) Prep QC Batch: N:MP97542

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
B = Indicates a result >= MDL but < RL

## Report of Analysis

Client Sample ID: AOC12-MW-402-DUP  
 Lab Sample ID: MC48956-2F  
 Matrix: AQ - Groundwater Filtered

Date Sampled: 12/02/16  
 Date Received: 12/02/16  
 Percent Solids: n/a

Project: NRG Montville Lathrop Road, Montville, CT

## Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic <sup>a</sup>	24.3	3.0	2.8	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Iron <sup>a</sup>	1700	100	18	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Magnesium <sup>a</sup>	1370 B J	5000	90	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Vanadium <sup>a</sup>	0.80 B J	50	0.72	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>

(1) Instrument QC Batch: N:MA40958

(2) Prep QC Batch: N:MP97542

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit  
 MDL = Method Detection Limit

U = Indicates a result < MDL  
 B = Indicates a result > = MDL but < RL

## Report of Analysis

Client Sample ID: AOC12-MW-401  
 Lab Sample ID: MC48956-4  
 Matrix: AQ - Ground Water

Date Sampled: 12/02/16  
 Date Received: 12/02/16  
 Percent Solids: n/a

Project: NRG Montville Lathrop Road, Montville, CT

## Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic <sup>a</sup>	98.2	3.0	2.8	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Iron <sup>a</sup>	32100	100	18	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Magnesium <sup>a</sup>	5700	5000	90	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Vanadium <sup>a</sup>	25.3 B J	50	0.72	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>

(1) Instrument QC Batch: N:MA40958

(2) Prep QC Batch: N:MP97542

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit  
 MDL = Method Detection Limit

U = Indicates a result < MDL  
 B = Indicates a result >= MDL but < RL

## Report of Analysis

Client Sample ID:	AOC12-MW-401	Date Sampled:	12/02/16
Lab Sample ID:	MC48956-4	Date Received:	12/02/16
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

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## General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed By Method
Nitrogen, Nitrate <sup>a</sup>	< 0.11	0.11	0.019	mg/l	1	12/08/16 16:47 VY EPA 353.2
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	0.018	mg/l	1	12/08/16 16:47 VY EPA 353.2
Nitrogen, Nitrite	< 0.010	0.010	0.0010	mg/l	1	12/02/16 14:10 MC SM 21 4500 NO2 B
Phosphate, Ortho <sup>b</sup>	0.14	0.10	0.015	mg/l	1	12/02/16 15:44 VY EPA 365.3
Sulfate	146	50	11	mg/l	10	12/02/16 EAL ASTM516-90,02
Sulfide <sup>c</sup>	0.28 B	2.0	0.26	mg/l	1	12/05/16 16:25 ANJ SM4500S2- F-11
Total Organic Carbon	< 1.0	1.0	0.16	mg/l	1	12/05/16 16:53 VY SM21 5310 B

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

(b) Filtration performed at the lab prior to analysis. Method requires field filtration within 15 minutes of sampling.

(c) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
B = Indicates a result > = MDL but < RL

## Report of Analysis

Page 1 of 1

Client Sample ID:	AOC12-MW-401	Date Sampled:	12/02/16
Lab Sample ID:	MC48956-4F	Date Received:	12/02/16
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

## Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic <sup>a</sup>	97.0	3.0	2.8	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Iron <sup>a</sup>	33000	100	18	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Magnesium <sup>a</sup>	5870	5000	90	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Vanadium <sup>a</sup>	16.0 B J	50	0.72	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>

(1) Instrument QC Batch: N:MA40958

(2) Prep QC Batch: N:MP97542

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
B = Indicates a result > = MDL but < RL



### Technical Report for

**CB&I**

**NRG Montville Lathrop Road, Montville, CT**

**631207126**

**SGS Accutest Job Number: MC48956**

**Sampling Date: 12/02/16**

### Report to:

**CB&I**  
**150 Royall Street**  
**Canton, MA 02021**  
**andrea.steele@cbi.com**

**ATTN: Andrea Steele**

**Total number of pages in report: 46**



Test results contained within this data package meet the requirements  
of the National Environmental Laboratory Accreditation Program  
and/or state specific certification programs as applicable.

*H. (Brad) Madadian*  
**H. (Brad) Madadian**  
**Lab Director**

**Client Service contact: Jeremy Vienneau 508-481-6200**

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791)  
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DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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Sample Summary

CB&I

Job No: MC48956

NRG Montville Lathrop Road, Montville, CT  
Project No: 631207126

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
MC48956-1	12/02/16	08:20 AM	12/02/16	AQ	Ground Water	AOC12-MW-402
MC48956-1F	12/02/16	08:20 AM	12/02/16	AQ	Groundwater Filtered	AOC12-MW-402
MC48956-2	12/02/16	08:20 AM	12/02/16	AQ	Ground Water	AOC12-MW-402-DUP
MC48956-2F	12/02/16	08:20 AM	12/02/16	AQ	Groundwater Filtered	AOC12-MW-402-DUP
MC48956-3	12/02/16	09:00 AM	12/02/16	AQ	Equipment Blank	EQUIPMENT BLANK
MC48956-4	12/02/16	10:10 AM	12/02/16	AQ	Ground Water	AOC12-MW-401
MC48956-4F	12/02/16	10:10 AM	12/02/16	AQ	Groundwater Filtered	AOC12-MW-401

## SAMPLE DELIVERY GROUP CASE NARRATIVE

2

**Client:** CB&I

**Job No** MC48956

**Site:** NRG Montville Lathrop Road, Montville, CT

**Report Date** 12/15/2016 6:30:39 P

4 Sample(s) were collected on 12/02/2016 and were received at SGS Accutest New England on 12/02/2016 properly preserved, at 1.8 Deg. C and intact. These Samples received a job number of MC48956. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

### Metals By Method EPA 200.7

**Matrix:** AQ

**Batch ID:** N:MP97542

- MC48956-1: Analysis performed at SGS Accutest, Dayton, NJ.
- MC48956-2,3,4: Analysis performed at SGS Accutest, Dayton, NJ.

### Wet Chemistry By Method ASTM516-90,02

**Matrix:** AQ

**Batch ID:** GN55468

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

### Wet Chemistry By Method EPA 353.2

**Matrix:** AQ

**Batch ID:** GP21174

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

**Matrix:** AQ

**Batch ID:** R39334

- MC48956-1 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

**Matrix:** AQ

**Batch ID:** R39335

- MC48956-4 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

### Wet Chemistry By Method EPA 365.3

**Matrix:** AQ

**Batch ID:** GN55475

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC48956-1MS, MC48956-1DUP were used as the QC samples for Phosphate, Ortho.
- RPD(s) for Duplicate for Phosphate, Ortho are outside control limits for sample GN55475-D1. RPD acceptable due to low duplicate and sample concentrations.
- MC48956-4 for Phosphate, Ortho: Filtration performed at the lab prior to analysis. Method requires field filtration within 15 minutes of sampling.
- MC48956-1 for Phosphate, Ortho: Filtration performed at the lab prior to analysis. Method requires field filtration within 15 minutes of sampling.

Thursday, December 15, 2016

Page 1 of 2

**Wet Chemistry By Method SM 21 4500 NO2 B****Matrix:** AQ**Batch ID:** GP21167

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

**Wet Chemistry By Method SM21 5310 B****Matrix:** AQ**Batch ID:** GP21171

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC48956-1DUP, MC48956-1MS were used as the QC samples for Total Organic Carbon.

**Wet Chemistry By Method SM4500S2- F-11****Matrix:** AQ**Batch ID:** N:GN56002

- MC48956-1 for Sulfide: Analysis performed at SGS Accutest, Dayton, NJ.
- MC48956-4 for Sulfide: Analysis performed at SGS Accutest, Dayton, NJ.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report (MC48956).

Thursday, December 15, 2016

Page 2 of 2

## CASE NARRATIVE / CONFORMANCE SUMMARY

**Client:** SGS Accutest New England

**Job No** MC48956

**Site:** FDG: NRG Montville Lathrop Road, Montville, CT

**Report Date** 12/15/2016 11:55:06 A

On 12/03/2016, 4 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS Accutest at a maximum corrected temperature of 3.5 C. Samples were intact and chemically preserved, unless noted below. A SGS Accutest Job Number of MC48956 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

### Metals By Method EPA 200.7

**Matrix:** AQ

**Batch ID:** MP97542

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC33051-1FSDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP97542-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

### Wet Chemistry By Method SM4500S2- F-11

**Matrix:** AQ

**Batch ID:** GN56002

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

SGS Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS Accutest is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS Accutest indicated via signature on the report cover

## Summary of Hits

**Job Number:** MC48956  
**Account:** CB&I  
**Project:** NRG Montville Lathrop Road, Montville, CT  
**Collected:** 12/02/16



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

### MC48956-1 AOC12-MW-402

Arsenic <sup>a</sup>	24.3	3.0	2.8	ug/l	EPA 200.7
Iron <sup>a</sup>	1680	100	18	ug/l	EPA 200.7
Magnesium <sup>a</sup>	1360 B	5000	90	ug/l	EPA 200.7
Vanadium <sup>a</sup>	0.80 B	50	0.72	ug/l	EPA 200.7
Nitrogen, Nitrate <sup>b</sup>	0.15	0.11		mg/l	EPA 353.2
Nitrogen, Nitrate + Nitrite	0.15	0.10		mg/l	EPA 353.2
Sulfate	13.8	5.0		mg/l	ASTM516-90,02
Sulfide <sup>a</sup>	0.28 B	2.0	0.26	mg/l	SM4500S2- F-11

### MC48956-1F AOC12-MW-402

Arsenic <sup>a</sup>	24.1	3.0	2.8	ug/l	EPA 200.7
Iron <sup>a</sup>	1670	100	18	ug/l	EPA 200.7
Magnesium <sup>a</sup>	1370 B	5000	90	ug/l	EPA 200.7

### MC48956-2 AOC12-MW-402-DUP

Arsenic <sup>a</sup>	25.2	3.0	2.8	ug/l	EPA 200.7
Iron <sup>a</sup>	1650	100	18	ug/l	EPA 200.7
Magnesium <sup>a</sup>	1340 B	5000	90	ug/l	EPA 200.7

### MC48956-2F AOC12-MW-402-DUP

Arsenic <sup>a</sup>	24.3	3.0	2.8	ug/l	EPA 200.7
Iron <sup>a</sup>	1700	100	18	ug/l	EPA 200.7
Magnesium <sup>a</sup>	1370 B	5000	90	ug/l	EPA 200.7
Vanadium <sup>a</sup>	0.80 B	50	0.72	ug/l	EPA 200.7

### MC48956-3 EQUIPMENT BLANK

No hits reported in this sample.

### MC48956-4 AOC12-MW-401

Arsenic <sup>a</sup>	98.2	3.0	2.8	ug/l	EPA 200.7
Iron <sup>a</sup>	32100	100	18	ug/l	EPA 200.7
Magnesium <sup>a</sup>	5700	5000	90	ug/l	EPA 200.7
Vanadium <sup>a</sup>	25.3 B	50	0.72	ug/l	EPA 200.7
Phosphate, Ortho <sup>c</sup>	0.14	0.10		mg/l	EPA 365.3
Sulfate	146	50		mg/l	ASTM516-90,02
Sulfide <sup>a</sup>	0.28 B	2.0	0.26	mg/l	SM4500S2- F-11

Summary of Hits

Job Number: MC48956  
Account: CB&I  
Project: NRG Montville Lathrop Road, Montville, CT  
Collected: 12/02/16



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC48956-4F	AOC12-MW-401					
Arsenic <sup>a</sup>		97.0	3.0	2.8	ug/l	EPA 200.7
Iron <sup>a</sup>		33000	100	18	ug/l	EPA 200.7
Magnesium <sup>a</sup>		5870	5000	90	ug/l	EPA 200.7
Vanadium <sup>a</sup>		16.0 B	50	0.72	ug/l	EPA 200.7

- (a) Analysis performed at SGS Accutest, Dayton, NJ.  
(b) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)  
(c) Filtration performed at the lab prior to analysis. Method requires field filtration within 15 minutes of sampling.





Sample Results

Report of Analysis

Report of Analysis

<b>Client Sample ID:</b>	AOC12-MW-402	<b>Date Sampled:</b>	12/02/16
<b>Lab Sample ID:</b>	MC48956-1	<b>Date Received:</b>	12/02/16
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By		Method	Prep Method
Arsenic <sup>a</sup>	24.3	3.0	2.8	ug/l	1	12/14/16	12/14/16	ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Iron <sup>a</sup>	1680	100	18	ug/l	1	12/14/16	12/14/16	ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Magnesium <sup>a</sup>	1360 B	5000	90	ug/l	1	12/14/16	12/14/16	ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Vanadium <sup>a</sup>	0.80 B	50	0.72	ug/l	1	12/14/16	12/14/16	ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>

- (1) Instrument QC Batch: N:MA40958  
(2) Prep QC Batch: N:MP97542
- (a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
B = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> AOC12-MW-402	<b>Date Sampled:</b> 12/02/16
<b>Lab Sample ID:</b> MC48956-1	<b>Date Received:</b> 12/02/16
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Project:</b> NRG Montville Lathrop Road, Montville, CT	

## General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate <sup>a</sup>	0.15	0.11	0.019	mg/l	1	12/08/16 16:46 VY	EPA	353.2
Nitrogen, Nitrate + Nitrite	0.15	0.10	0.018	mg/l	1	12/08/16 16:46 VY	EPA	353.2
Nitrogen, Nitrite	< 0.010	0.010	0.0010	mg/l	1	12/02/16 14:10 MC	SM 21	4500 NO2 B
Phosphate, Ortho <sup>b</sup>	< 0.10	0.10	0.015	mg/l	1	12/02/16 15:44 VY	EPA	365.3
Sulfate	13.8	5.0	1.1	mg/l	1	12/02/16	EAL	ASTM516-90,02
Sulfide <sup>c</sup>	0.28 B	2.0	0.26	mg/l	1	12/05/16 16:25 ANJ	SM4500S2-	F-11
Total Organic Carbon	< 1.0	1.0	0.16	mg/l	1	12/05/16 16:40 VY	SM21	5310 B

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

(b) Filtration performed at the lab prior to analysis. Method requires field filtration within 15 minutes of sampling.

(c) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
B = Indicates a result > = MDL but < RL

Report of Analysis

<b>Client Sample ID:</b>	AOC12-MW-402	<b>Date Sampled:</b>	12/02/16
<b>Lab Sample ID:</b>	MC48956-1F	<b>Date Received:</b>	12/02/16
<b>Matrix:</b>	AQ - Groundwater Filtered	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NRG Montville Lathrop Road, Montville, CT		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By		Method	Prep Method
Arsenic <sup>a</sup>	24.1	3.0	2.8	ug/l	1	12/14/16	12/14/16	ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Iron <sup>a</sup>	1670	100	18	ug/l	1	12/14/16	12/14/16	ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Magnesium <sup>a</sup>	1370 B	5000	90	ug/l	1	12/14/16	12/14/16	ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Vanadium <sup>a</sup>	0.72 U	50	0.72	ug/l	1	12/14/16	12/14/16	ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>

- (1) Instrument QC Batch: N:MA40958  
(2) Prep QC Batch: N:MP97542
- (a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
B = Indicates a result > = MDL but < RL

Report of Analysis

<b>Client Sample ID:</b>	AOC12-MW-402-DUP	<b>Date Sampled:</b>	12/02/16
<b>Lab Sample ID:</b>	MC48956-2	<b>Date Received:</b>	12/02/16
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By		Method	Prep Method
Arsenic <sup>a</sup>	25.2	3.0	2.8	ug/l	1	12/14/16	12/14/16	ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Iron <sup>a</sup>	1650	100	18	ug/l	1	12/14/16	12/14/16	ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Magnesium <sup>a</sup>	1340 B	5000	90	ug/l	1	12/14/16	12/14/16	ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Vanadium <sup>a</sup>	0.72 U	50	0.72	ug/l	1	12/14/16	12/14/16	ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>

- (1) Instrument QC Batch: N:MA40958  
(2) Prep QC Batch: N:MP97542
- (a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
B = Indicates a result > = MDL but < RL

Report of Analysis

<b>Client Sample ID:</b>	AOC12-MW-402-DUP	<b>Date Sampled:</b>	12/02/16
<b>Lab Sample ID:</b>	MC48956-2F	<b>Date Received:</b>	12/02/16
<b>Matrix:</b>	AQ - Groundwater Filtered	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NRG Montville Lathrop Road, Montville, CT		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By		Method	Prep Method
Arsenic <sup>a</sup>	24.3	3.0	2.8	ug/l	1	12/14/16	12/14/16	ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Iron <sup>a</sup>	1700	100	18	ug/l	1	12/14/16	12/14/16	ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Magnesium <sup>a</sup>	1370 B	5000	90	ug/l	1	12/14/16	12/14/16	ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Vanadium <sup>a</sup>	0.80 B	50	0.72	ug/l	1	12/14/16	12/14/16	ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>

- (1) Instrument QC Batch: N:MA40958  
(2) Prep QC Batch: N:MP97542
- (a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
B = Indicates a result > = MDL but < RL

Report of Analysis

<b>Client Sample ID:</b>	EQUIPMENT BLANK	<b>Date Sampled:</b>	12/02/16
<b>Lab Sample ID:</b>	MC48956-3	<b>Date Received:</b>	12/02/16
<b>Matrix:</b>	AQ - Equipment Blank	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic <sup>a</sup>	2.8 U	3.0	2.8	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Iron <sup>a</sup>	18 U	100	18	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Magnesium <sup>a</sup>	90 U	5000	90	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Vanadium <sup>a</sup>	0.72 U	50	0.72	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>

- (1) Instrument QC Batch: N:MA40958  
(2) Prep QC Batch: N:MP97542
- (a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
B = Indicates a result > = MDL but < RL

Report of Analysis

<b>Client Sample ID:</b>	AOC12-MW-401	<b>Date Sampled:</b>	12/02/16
<b>Lab Sample ID:</b>	MC48956-4	<b>Date Received:</b>	12/02/16
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic <sup>a</sup>	98.2	3.0	2.8	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Iron <sup>a</sup>	32100	100	18	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Magnesium <sup>a</sup>	5700	5000	90	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Vanadium <sup>a</sup>	25.3 B	50	0.72	ug/l	1	12/14/16	12/14/16 ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>

- (1) Instrument QC Batch: N:MA40958  
(2) Prep QC Batch: N:MP97542
- (a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
B = Indicates a result > = MDL but < RL



## Report of Analysis

<b>Client Sample ID:</b>	AOC12-MW-401	<b>Date Sampled:</b>	12/02/16
<b>Lab Sample ID:</b>	MC48956-4	<b>Date Received:</b>	12/02/16
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NRG Montville Lathrop Road, Montville, CT		

## General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate <sup>a</sup>	< 0.11	0.11	0.019	mg/l	1	12/08/16 16:47 VY	EPA	353.2
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	0.018	mg/l	1	12/08/16 16:47 VY	EPA	353.2
Nitrogen, Nitrite	< 0.010	0.010	0.0010	mg/l	1	12/02/16 14:10 MC	SM 21	4500 NO2 B
Phosphate, Ortho <sup>b</sup>	0.14	0.10	0.015	mg/l	1	12/02/16 15:44 VY	EPA	365.3
Sulfate	146	50	11	mg/l	10	12/02/16	EAL	ASTM516-90,02
Sulfide <sup>c</sup>	0.28 B	2.0	0.26	mg/l	1	12/05/16 16:25 ANJ	SM4500S2-	F-11
Total Organic Carbon	< 1.0	1.0	0.16	mg/l	1	12/05/16 16:53 VY	SM21	5310 B

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

(b) Filtration performed at the lab prior to analysis. Method requires field filtration within 15 minutes of sampling.

(c) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
B = Indicates a result > = MDL but < RL

Report of Analysis

<b>Client Sample ID:</b>	AOC12-MW-401	<b>Date Sampled:</b>	12/02/16
<b>Lab Sample ID:</b>	MC48956-4F	<b>Date Received:</b>	12/02/16
<b>Matrix:</b>	AQ - Groundwater Filtered	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NRG Montville Lathrop Road, Montville, CT		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By		Method	Prep Method
Arsenic <sup>a</sup>	97.0	3.0	2.8	ug/l	1	12/14/16	12/14/16	ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Iron <sup>a</sup>	33000	100	18	ug/l	1	12/14/16	12/14/16	ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Magnesium <sup>a</sup>	5870	5000	90	ug/l	1	12/14/16	12/14/16	ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>
Vanadium <sup>a</sup>	16.0 B	50	0.72	ug/l	1	12/14/16	12/14/16	ANJ	EPA 200.7 <sup>1</sup>	EPA 200.7 <sup>2</sup>

- (1) Instrument QC Batch: N:MA40958  
(2) Prep QC Batch: N:MP97542
- (a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
B = Indicates a result > = MDL but < RL

## Misc. Forms

5

## Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody
- RCP Form
- RCP Form (SGS Accutest New Jersey)
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits



# SGS Accutest Sample Receipt Summary

Job Number: MC48956

Client: CB&I

Project: NRG MONTVILLE

Date / Time Received: 12/2/2016 12:54:00 PM

Delivery Method: SGS Courier

Airbill #'s:

Cooler Temps (Initial/Adjusted): #1: (1.8/1.8):

## Cooler Security

Y or N

1. Custody Seals Present: ☒ ☐ 3. COC Present: ☒ ☐  
2. Custody Seals Intact: ☒ ☐ 4. Smpl Dates/Time OK: ☒ ☐

## Cooler Temperature

Y or N

1. Temp criteria achieved: ☒ ☐  
2. Thermometer ID: IRGUN1;  
3. Cooler media: Ice (Bag)  
4. No. Coolers: 1

## Quality Control Preservation

Y or N

N/A

1. Trip Blank present / cooler: ☐ ☐ ☒  
2. Trip Blank listed on COC: ☐ ☐ ☒  
3. Samples preserved properly: ☒ ☐  
4. VOCs headspace free: ☐ ☐ ☒

Comments

## Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles: ☒ ☐  
2. Container labeling complete: ☒ ☐  
3. Sample container label / COC agree: ☒ ☐

## Sample Integrity - Condition

Y or N

1. Sample recvd within HT: ☒ ☐  
2. All containers accounted for: ☒ ☐  
3. Condition of sample: Intact

## Sample Integrity - Instructions

Y or N N/A

1. Analysis requested is clear: ☒ ☐  
2. Bottles received for unspecified tests: ☐ ☒  
3. Sufficient volume recvd for analysis: ☒ ☐  
4. Compositing instructions clear: ☐ ☐ ☒  
5. Filtering instructions clear: ☐ ☐ ☒

MC48956: Chain of Custody

Page 2 of 2

# Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: **Accutest New England** Client: **CB&I**

Project Location: **NRG Montville Lathrop Road, Montville, CT** Project Number: **1009644010 PO#**

Sampling Date(s): **12/2/2016**


Laboratory Sample ID(s): **MC48956-1, MC48956-2, MC48956-3, MC48956-4, MC48956-1F, MC48956-2F, MC48956-4F**

Methods: Refer to case narrative.

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1A	Where all the method specified preservation and holding time requirements met?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
1B	VPH and EPH methods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
3	Were samples received at an appropriate temperature (<6° C)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
	b) Were these reporting limits met?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

**Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".**

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized  
Signature:  Position: Lab Director

Printed Name: H. (Brad) Madadian Date: 12/16/2016  
Accutest New England

# Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Accutest New England Client: SGS Accutest New England

Project Location: FDG: NRG Montville Lathrop Road, Montville, CT Project Number: FDG18607

Sampling Date(s): 12/2/2016

Laboratory Sample ID(s): MC48956-1, MC48956-2, MC48956-3, MC48956-4, MC48956-1F, MC48956-2F, MC48956-3F, MC48956-4F

Methods: EPA 200.7, SM4500S2- F-11

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1A	Where all the method specified preservation and holding time requirements met?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
3	Were samples received at an appropriate temperature (<6° C)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
	b) Were these reporting limits met?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: *Nancy F. Cole*

Position: Lab Director

Printed Name: Nancy Cole  
Mid-Atlantic Laboratory

Date: 12/15/2016

## Internal Sample Tracking Chronicle

CB&amp;I

Job No: MC48956

NRG Montville Lathrop Road, Montville, CT  
Project No: 631207126

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC48956-1 Collected: 02-DEC-16 08:20 By: AM Received: 02-DEC-16 By: TF AOC12-MW-402						
MC48956-1	ASTM516-90,02	02-DEC-16	EAL			SO4
MC48956-1	SM 21 4500 NO2 B	02-DEC-16 14:10	MC	02-DEC-16	MC	NO2
MC48956-1	EPA 365.3	02-DEC-16 15:44	VY			OPO4
MC48956-1	SM4500S2- F-11	05-DEC-16 16:25	ANJ			S
MC48956-1	SM21 5310 B	05-DEC-16 16:40	VY	05-DEC-16	VY	TOC
MC48956-1	EPA 353.2	08-DEC-16 16:46	VY			NO3O
MC48956-1	EPA 353.2	08-DEC-16 16:46	VY	08-DEC-16	VY	NO32
MC48956-1	EPA 200.7	14-DEC-16 21:39	ANJ	14-DEC-16	ANJ	AS,FE,MG,V
MC48956-2 Collected: 02-DEC-16 08:20 By: AM Received: 02-DEC-16 By: TF AOC12-MW-402-DUP						
MC48956-2	EPA 200.7	14-DEC-16 21:42	ANJ	14-DEC-16	ANJ	AS,FE,MG,V
MC48956-3 Collected: 02-DEC-16 09:00 By: AM Received: 02-DEC-16 By: TF EQUIPMENT BLANK						
MC48956-3	EPA 200.7	14-DEC-16 21:45	ANJ	14-DEC-16	ANJ	AS,FE,MG,V
MC48956-4 Collected: 02-DEC-16 10:10 By: AM Received: 02-DEC-16 By: TF AOC12-MW-401						
MC48956-4	ASTM516-90,02	02-DEC-16	EAL			SO4
MC48956-4	SM 21 4500 NO2 B	02-DEC-16 14:10	MC	02-DEC-16	MC	NO2
MC48956-4	EPA 365.3	02-DEC-16 15:44	VY			OPO4
MC48956-4	SM4500S2- F-11	05-DEC-16 16:25	ANJ			S
MC48956-4	SM21 5310 B	05-DEC-16 16:53	VY	05-DEC-16	VY	TOC
MC48956-4	EPA 353.2	08-DEC-16 16:47	VY			NO3O
MC48956-4	EPA 353.2	08-DEC-16 16:47	VY	08-DEC-16	VY	NO32
MC48956-4	EPA 200.7	14-DEC-16 21:48	ANJ	14-DEC-16	ANJ	AS,FE,MG,V
MC48956-1H Collected: 02-DEC-16 08:20 By: AM Received: 02-DEC-16 By: TF AOC12-MW-402						
MC48956-1H	EPA 200.7	14-DEC-16 21:51	ANJ	14-DEC-16	ANJ	AS,FE,MG,V



Internal Sample Tracking Chronicle

CB&I

Job No: MC48956

NRG Montville Lathrop Road, Montville, CT  
Project No: 631207126

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC48956-2ICollected: 02-DEC-16 08:20 By: AM Received: 02-DEC-16 By: TF AOC12-MW-402-DUP						
MC48956-2IEPA 200.7		14-DEC-16 21:54	ANJ	14-DEC-16	ANJ	AS,FE,MG,V
MC48956-4ICollected: 02-DEC-16 10:10 By: AM Received: 02-DEC-16 By: TF AOC12-MW-401						
MC48956-4IEPA 200.7		14-DEC-16 21:58	ANJ	14-DEC-16	ANJ	AS,FE,MG,V

QC Evaluation: CT RCP Limits

Job Number: MC48956  
Account: CB&I  
Project: NRG Montville Lathrop Road, Montville, CT  
Collected: 12/02/16

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
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No Exceptions found.

\* Sample used for QC is not from job MC48956

## General Chemistry

### QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: MC48956  
Account: FDG - CB&I  
Project: NRG Montville Lathrop Road, Montville, CT

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Nitrogen, Nitrate + Nitrite	GP21174/GN55484	0.10	0.036	mg/l	2	2.17	108.5	90-110%
Nitrogen, Nitrite	GP21167/GN55466	0.010	0.0	mg/l	.02	0.020	100.0	80-120%
Phosphate, Ortho	GN55475	0.10	0.0	mg/l	.2	0.20	100.0	80-120%
Sulfate	GN55468	5.0	0.0	mg/l	20	19.9	99.5	80-120%
Total Organic Carbon	GP21171/GN55481	1.0	0.0	mg/l	10	9.70	97.0	80-120%

Associated Samples:

Batch GN55468: MC48956-1, MC48956-4  
Batch GN55475: MC48956-1, MC48956-4  
Batch GP21167: MC48956-1, MC48956-4  
Batch GP21171: MC48956-1, MC48956-4  
Batch GP21174: MC48956-1, MC48956-4  
(\*) Outside of QC limits

6.1  
6

DUPLICATE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: MC48956  
Account: FDG - CB&I  
Project: NRG Montville Lathrop Road, Montville, CT

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Phosphate, Ortho	GN55475	MC48956-1	mg/l	0.079	0.048	48.8(a)	0-20%
Total Organic Carbon	GP21171/GN55481	MC48956-1	mg/l	0.0	0.0	0.0	0-20%

Associated Samples:

Batch GN55475: MC48956-1, MC48956-4

Batch GP21171: MC48956-1, MC48956-4

(\*) Outside of QC limits

(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: MC48956  
Account: FDG - CB&I  
Project: NRG Montville Lathrop Road, Montville, CT

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Phosphate, Ortho	GN55475	MC48956-1	mg/l	0.079	.2	0.29	105.5	75-125%
Total Organic Carbon	GP21171/GN55481	MC48956-1	mg/l	0.0	10	9.2	92.0	75-125%

Associated Samples:

Batch GN55475: MC48956-1, MC48956-4

Batch GP21171: MC48956-1, MC48956-4

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

6.3

6

## Misc. Forms

### Custody Documents and Other Forms

(SGS Accutest New Jersey)

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Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

Job Change Order: MC48956

Requested Date:	12/5/2016	Received Date:	12/2/2016
Account Name:	CB&I	Due Date:	12/16/2016
Project Description:	NRG Montville Lathrop Road, Montville, CT	Deliverable:	CTRCP
CSR:	jeremyv	TAT (Days):	10

Sample #: MC48956-1 through 4 Change:

Client would like to report MDL / J Values; Currently logged in at ALNU to omit J Values.

Dept:

TAT: 10

Above Changes Per:

Date/Time: 12/5/2016 11:38:20 AM

To Client: This Change Order is confirmation of the revisions, previously discussed with the SGS Accutest Client Service Representative.

Page 1 of 1

MC48956: Chain of Custody  
Page 1 of 4  
SGS Accutest New Jersey



## SGS Accutest Sample Receipt Summary

**Job Number:** MC48956

**Client:** SGS Accutest

**Project:** NRG

**Date / Time Received:** 12/3/2016 10:00:00 AM

**Delivery Method:** Other Courier

**Airbill #s:**
**Cooler Temps (Raw Measured) °C:** Cooler 1: (2.1);

**Cooler Temps (Corrected) °C:** Cooler 1: (3.5);

**Cooler Security**
**Y or N**
**Y or N**

- |  |  |
|--|--|
| 1. Custody Seals Present: <input checked="" type="checkbox"/> <input type="checkbox"/> | 3. COC Present: <input checked="" type="checkbox"/> <input type="checkbox"/>       |
| 2. Custody Seals Intact: <input checked="" type="checkbox"/> <input type="checkbox"/>  | 4. Smpl Dates/Time OK <input checked="" type="checkbox"/> <input type="checkbox"/> |

**Cooler Temperature**
**Y or N**

- |   |                                     |
|---|-------------------------------------|
| 1. Temp criteria achieved: <input checked="" type="checkbox"/> <input type="checkbox"/> | 2. Cooler temp verification: IR Gun |
| 3. Cooler media: Ice (Bag)  |                                     |
| 4. No. Coolers: 1   |                                     |

**Quality Control Preservation**
**Y or N**
**N/A**

- |   |  |
|---|--|
| 1. Trip Blank present / cooler: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | 2. Trip Blank listed on COC: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 3. Samples preserved properly: <input checked="" type="checkbox"/> <input type="checkbox"/>                           | 4. VOCs headspace free: <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>      |

**Sample Integrity - Documentation**
**Y or N**

- |   |  |
|---|--|
| 1. Sample labels present on bottles: <input checked="" type="checkbox"/> <input type="checkbox"/>   | 2. Container labeling complete: <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 3. Sample container label / COC agree: <input checked="" type="checkbox"/> <input type="checkbox"/> |  |

**Sample Integrity - Condition**
**Y or N**

- |   |   |
|---|---|
| 1. Sample recvd within HT: <input checked="" type="checkbox"/> <input type="checkbox"/> | 2. All containers accounted for: <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 3. Condition of sample: Intact  |   |

**Sample Integrity - Instructions**
**Y or N N/A**

- |  |  |
|--|--|
| 1. Analysis requested is clear: <input checked="" type="checkbox"/> <input type="checkbox"/>                           | 2. Bottles received for unspecified tests: <input type="checkbox"/> <input checked="" type="checkbox"/>                  |
| 3. Sufficient volume recvd for analysis: <input checked="" type="checkbox"/> <input type="checkbox"/>                  | 4. Compositing instructions clear: <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> |  |

**Comments** Did not receive -3F (filtered volume)

SM089-02  
Rev. Date 12/1/16

### MC48956: Chain of Custody

### Page 2 of 4

## SGS Accutest Sample - Problem Resolution

**Accutest Job Number:** MC48956

**CSR:** Michelle

**Response Date:** 12/5/2016

**Response:** -3F is not needed per Thelma Flaherty

SM089-02  
Rev. Date 12/1/16

**MC48956: Chain of Custody**  
**Page 3 of 4**

50 D'Angelo Drive, 495 Technology Center West, Bldg One, Marlborough, MA 01752  
TEL. 508-481-6200 FAX. 508-481-7753  
www.sgs.com

**Client / Reporting Information**  
Company Name: **SGS Accutest**  
Street Address: **50 D'Angelo Drive, 495 Technology Center West, BLDG One**  
City: **Marlborough, MA 01752**  
Project Contact: **jeremyv@accutest.com**  
Phone #: **508-481-6200**  
Sampler(s) Name(s): **AM**

**Project Information**  
Project Name: **NRG Montville Lathrop Road, Montville, CT**  
Street: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_  
Billing Information (if different from Report to):  
Company Name: \_\_\_\_\_  
Street Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Client Purchase Order #: \_\_\_\_\_  
Project Manager: \_\_\_\_\_ Attention: \_\_\_\_\_

**Requested Analysis (see TEST CODE sheet)**  
Matrix Codes: **DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL - Sludge, SED - Sediment, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid, WP - Wipe, FB - Field Blank, EB - Equipment Blank, RB - Rinse Blank, TB - Trip Blank**

SGS Analyzed Sample #	Field ID / Point of Collection	MECH/DI Val #	Date	Time	Sampled by	Matrix	# of bottles	ICL	NO <sub>3</sub> -N	NO <sub>2</sub> -N	HSO <sub>4</sub> -S	NH <sub>4</sub> <sup>+</sup> -N	PO <sub>4</sub> <sup>3-</sup> -P	NO <sub>3</sub> <sup>-</sup>	NO <sub>2</sub> <sup>-</sup>	HSO <sub>4</sub> <sup>-</sup>	NH <sub>4</sub> <sup>+</sup>	PO <sub>4</sub> <sup>3-</sup>	SS	AS FE (MG V (200.7)
1F	AOC12-MW-402		12/2/16	8:20:00 AM	AM	AQ	1													
1	AOC12-MW-402		12/2/16	8:20:00 AM	AM	AQ	2													X
2F	AOC12-MW-402-DUP		12/2/16	8:20:00 AM	AM	AQ	1													X
2	AOC12-MW-402-DUP		12/2/16	8:20:00 AM	AM	AQ	1													X
3F	EQUIPMENT BLANK		12/2/16	9:00:00 AM	AM	AQ	1													X
3	EQUIPMENT BLANK		12/2/16	9:00:00 AM	AM	AQ	1													X
4F	AOC12-MW-401		12/2/16	10:10:00 AM	AM	AQ	1													X
4	AOC12-MW-401		12/2/16	10:10:00 AM	AM	AQ	2													X

**Turnaround Time (Business days)**  
☐ Std. 10 Business Days  
☐ 5 Day RUSH  
☐ 3 Day EMERGENCY  
☐ 2 Day EMERGENCY  
☐ 1 Day EMERGENCY  
☒ other Due 12/16/2016  
Emergency & Rush T/A data available VIA Lablink

**Approved By (SGS Accutest PM): / Date:** \_\_\_\_\_

**Data Deliverable Information**  
☐ Commercial "A" (Level 1)  
☐ Commercial "B" (Level 2)  
☐ FULL T1 (Level 3+4)  
☐ NJ Reduced  
☐ Commercial "C"  
☐ NYASP Category A  
☐ NYASP Category B  
☐ State Forms  
☐ EDO Format  
☒ Other CTRCP  
Commercial "A" = Results Only  
Commercial "B" = Results + QC Summary  
NJ Reduced = Results + QC Summary + Partial Raw data

**Comments / Special Instructions**  
Ship to ALNJ \*\*10 Day TAT  
INITIAL ASSESSMENT 2A JV  
LABEL VERIFICATION AW

**Sample Custody must be documented below each time samples change possession, including courier delivery.**

Relinquished By	Date / Time	Received By	Date / Time	Relinquished By	Date / Time	Received By	Date / Time
1 <u>Theresa Fleg</u>	12/2/16 8:20	1 <u>[Signature]</u>	12/3/16 10:02	2 <u>[Signature]</u>	12/3/16 10:02	3 <u>[Signature]</u>	12/3/16 10:02
3 <u>[Signature]</u>		4 <u>[Signature]</u>		4 <u>[Signature]</u>		5 <u>[Signature]</u>	
5 <u>[Signature]</u>							

**Custody Seal #** ☐ Intact ☐ Not Intact  
**Preserved where applicable** ☐ On Ice ☒ Cooler Temp. 2.1 deg

MC48956: Chain of Custody

Page 4 of 4

## Internal Sample Tracking Chronicle

SGS Accutest New England

Job No: MC48956

FDG: NRG Montville Lathrop Road, Montville, CT

Project No: 631207126

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC48956-1 Collected: 02-DEC-16 08:20 By: AM Received: 02-DEC-16 By: DG AOC12-MW-402						
MC48956-1	SM4500S2- F-11	05-DEC-16 16:25	ST			S
MC48956-1	EPA 200.7	14-DEC-16 21:39	ND	14-DEC-16	DP	AS,FE,MG,V
MC48956-2 Collected: 02-DEC-16 08:20 By: AM Received: 02-DEC-16 By: DG AOC12-MW-402-DUP						
MC48956-2	EPA 200.7	14-DEC-16 21:42	ND	14-DEC-16	DP	AS,FE,MG,V
MC48956-3 Collected: 02-DEC-16 09:00 By: AM Received: 02-DEC-16 By: DG EQUIPMENT BLANK						
MC48956-3	EPA 200.7	14-DEC-16 21:45	ND	14-DEC-16	DP	AS,FE,MG,V
MC48956-4 Collected: 02-DEC-16 10:10 By: AM Received: 02-DEC-16 By: DG AOC12-MW-401						
MC48956-4	SM4500S2- F-11	05-DEC-16 16:25	ST			S
MC48956-4	EPA 200.7	14-DEC-16 21:48	ND	14-DEC-16	DP	AS,FE,MG,V
MC48956-1F Collected: 02-DEC-16 08:20 By: AM Received: 02-DEC-16 By: DG AOC12-MW-402						
MC48956-1F	EPA 200.7	14-DEC-16 21:51	ND	14-DEC-16	DP	AS,FE,MG,V
MC48956-2F Collected: 02-DEC-16 08:20 By: AM Received: 02-DEC-16 By: DG AOC12-MW-402-DUP						
MC48956-2F	EPA 200.7	14-DEC-16 21:54	ND	14-DEC-16	DP	AS,FE,MG,V
MC48956-4F Collected: 02-DEC-16 10:10 By: AM Received: 02-DEC-16 By: DG AOC12-MW-401						
MC48956-4F	EPA 200.7	14-DEC-16 21:58	ND	14-DEC-16	DP	AS,FE,MG,V

QC Evaluation: CT RCP Limits

Job Number: MC48956  
Account: SGS Accutest New England  
Project: FDG: NRG Montville Lathrop Road, Montville, CT  
Collected: 12/02/16

QC Sample ID	CAS#	Analyte	Sample Result Type	Result Type	Units	Limits
--------------	------	---------	--------------------	-------------	-------	--------

No Exceptions found.

\* Sample used for QC is not from job MC48956

## Metals Analysis

### QC Data Summaries

(SGS Accutest New Jersey)

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: MC48956  
Account: ALNE - SGS Accutest New England  
Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP97542  
Matrix Type: AQUEOUS

Methods: EPA 200.7  
Units: ug/l

Prep Date: 12/14/16

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	20	22		
Antimony	6.0	1.2	3.1		
Arsenic	3.0	1.5	2.8	0.20	<3.0
Barium	200	.5	.54		
Beryllium	1.0	.3	.31		
Bismuth	20	2.3	2.8		
Boron	100	1.9	2.4		
Cadmium	3.0	.2	.43		
Calcium	5000	8.2	14		
Chromium	10	.6	1.1		
Cobalt	50	.2	.41		
Copper	10	.8	2.6		
Iron	100	8.9	18	-1.9	<100
Lead	3.0	1	2.5		
Lithium	20	2.9	3.5		
Magnesium	5000	88	90	-9.2	<5000
Manganese	15	.1	.48		
Molybdenum	20	.3	1.4		
Nickel	10	.4	.64		
Palladium	50	2.1	2.8		
Potassium	10000	78	99		
Selenium	10	2.6	3.6		
Silicon	200	2.6	15		
Silver	10	.7	.97		
Sodium	10000	20	25		
Sulfur	50	4.8	6.9		
Strontium	10	.2	.22		
Thallium	2.0	1.2	1.8		
Tin	10	.5	1.6		
Titanium	10	.7	1.4		
Tungsten	50	1.1	2.1		
Vanadium	50	.5	.72	-0.10	<50
Zinc	20	.1	1.2		

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: MC48956  
Account: ALNE - SGS Accutest New England  
Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP97542  
Matrix Type: AQUEOUS

Methods: EPA 200.7  
Units: ug/l

Prep Date: 12/14/16

Metal	RL	IDL	MDL	MB raw	final
-------	----	-----	-----	-----------	-------

Zirconium 10 .3 1

Associated samples MP97542: MC48956-1, MC48956-2, MC48956-3, MC48956-4, MC48956-1F, MC48956-2F, MC48956-4F

Results < IDL are shown as zero for calculation purposes  
(\*) Outside of QC limits  
(anr) Analyte not requested

8.1.1

8



## SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC48956

Account: ALNE - SGS Accutest New England

Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP97542

Methods: EPA 200.7

Matrix Type: AQUEOUS

Units: ug/l

Prep Date: 12/14/16

Metal	BSP Result	Spikelot MPSPK1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	1920	2000	96.0	85-115
Barium				
Beryllium				
Bismuth				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	anr			
Iron	23700	25000	94.8	85-115
Lead	anr			
Lithium				
Magnesium	23500	25000	94.0	85-115
Manganese				
Molybdenum				
Nickel				
Palladium				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Sulfur				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium	1880	2000	94.0	85-115
Zinc	anr			

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC48956  
 Account: ALNE - SGS Accutest New England  
 Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP97542  
 Matrix Type: AQUEOUS

Methods: EPA 200.7  
 Units: ug/l

Prep Date: 12/14/16

Metal	BSP Result	Spikelot MPSPK1	% Rec	QC Limits
-------	---------------	--------------------	-------	--------------

Zirconium

Associated samples MP97542: MC48956-1, MC48956-2, MC48956-3, MC48956-4, MC48956-1F, MC48956-2F, MC48956-4F

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(anr) Analyte not requested

8.1.2

8

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC48956  
 Account: ALNE - SGS Accutest New England  
 Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP97542  
 Matrix Type: AQUEOUS

Methods: EPA 200.7  
 Units: ug/l

Prep Date: 12/14/16

Metal	JC33051-1F Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	2.70	0.00	100.0(a)	0-10
Barium				
Beryllium				
Bismuth				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	anr			
Iron	0.00	0.00	NC	0-10
Lead	anr			
Lithium				
Magnesium	24300	25600	5.6	0-10
Manganese				
Molybdenum				
Nickel				
Palladium				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Sulfur				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium	0.00	0.00	NC	0-10
Zinc	anr			

8.1.3  
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC48956  
Account: ALNE - SGS Accutest New England  
Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP97542  
Matrix Type: AQUEOUS

Methods: EPA 200.7  
Units: ug/l

Prep Date: 12/14/16

Metal	JC33051-1F Original SDL 1:5	%DIF	QC Limits
-------	--------------------------------	------	--------------

Zirconium

Associated samples MP97542: MC48956-1, MC48956-2, MC48956-3, MC48956-4, MC48956-1F, MC48956-2F, MC48956-4F

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

8.1.3

8

## General Chemistry

### QC Data Summaries

(SGS Accutest New Jersey)

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: MC48956  
Account: ALNE - SGS Accutest New England  
Project: FDG: NRG Montville Lathrop Road, Montville, CT

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Sulfide	GN56002	2.0	0.0	mg/l	9.8	9.6	98.0	80-120%
Sulfide	GN56002			mg/l	4.9	5.0	102.0	80-120%

Associated Samples:  
Batch GN56002: MC48956-1, MC48956-4  
(\*) Outside of QC limits